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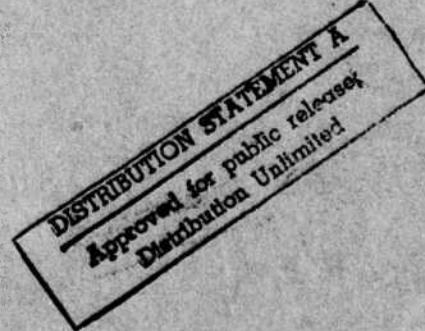
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20. ABSTRACT This is the Soviet Laser Bibliography for January-February 1980, and is No. 45 in a continuing series on Soviet laser developments. The coverage includes basic research on solid state, liquid, gas, and chemical lasers; components; nonlinear optics; spectroscopy of laser materials; ultrashort pulse generation; theoretical aspects of advanced lasers; and general laser theory. Laser applications are listed under biological effects; communications; beam propagation; computer technology; holography; laser-induced chemical reactions; measurement of laser parameters; laser measurement applications; laser-excited optical effects; laser spectroscopy; beam-target interaction; and plasma generation and diagnostics.		

Introduction

This bibliography has been compiled under an interagency agreement as a continuing effort to document current Soviet-bloc developments in the quantum electronics field. The period covered is January-February 1980, and includes all significant laser-related articles received by us in that interval. The bulk of the entries come from the approximately 30 periodicals which are known to publish the most significant findings in Soviet laser technology. Citations from the Russian Reference Journals are also included. Laser items from the popular or semipopular press are generally omitted.

For convenience we have abbreviated frequently cited source names; a source abbreviations list and an author index are included. All sources cited with no parenthetical notation are available at the Library of Congress. A parenthetical entry (RZh, KL) indicates the secondary source in which the citation was found as a bibliographic entry or abstract, but for which the original source is not currently available at the Library. The authors' affiliations are indicated by the numbers in parentheses following the authors' names in the text and are listed in the Author Affiliations List. New affiliations are assigned a new number and are added to a cumulative list which includes all affiliations from 1969 to the present. Only those affiliations which appear in this issue are listed in this issue's Author Affiliations List.

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SOVIET LASER BIBLIOGRAPHY, JANUARY - FEBRUARY 1980

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I. BASIC RESEARCH

A. SOLID STATE LASERS

1. Crystal: Ruby

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IV. SOURCE ABBREVIATIONS

(CIRC Codens)

BAPS	(BAPTA)	Bulletin de l'Academie Polonaise des Sciences. Serie des Sciences Techniques
DAN Arm	(DANAA)	Akademiya nauk Armyanskoy SSR. Doklady
DAN B	(DBLRA)	Akademiya nauk Belorusskoy SSR. Doklady
DAN SSSR	(DANKA)	Akademiya nauk SSSR. Doklady
DBAN	(CRABA)	Bulgarska akademiya na naukite. Doklady
E1 Tech	(ETNTA)	Electron Technology [Poland]
EOM	(EOBMA)	Elektronnaya obrabotka materialov
ETP	(EXPPA)	Experimentelle Technik der Physik
FAiO	(IFAOA)	Akademiya nauk SSSR. Izvestiya. Fizika atmosfery i okeana
FGiV	(FGVZA)	Fizika gorenija i vzryva
FiKhOM	(FKOMA)	Fizika i khimiya obrabotka materialov
FTP	(FTPPA)	Fizika i tekhnika poluprovodnikov
FTT	(FTVTA)	Fizika tverdogo tela
IAN Arm	(IAAFA)	Akademiya nauk Armyanskoy SSR. Izvestiya. Fizika
IAN M	(IZFMB)	Akademiya nauk Moldavskoy SSR. Izvestiya. Seriya fiziko-tehnicheskikh i matematicheskikh nauk
I-FZh	(INFZA)	Inzhenerno-fizicheskiy zhurnal
ISOAN	(IZSTA)	Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk
IT	(IZTEA)	Izmeritel'naya tekhnika
IVUZ Fiz	(IVUFA)	Izvestiya vysshikh uchebnykh zavedeniy. Fizika
IVUZ Priboro	(IVUBA)	Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye
IVUZ Radioelektr (IVUZB)		Izvestiya vysshikh uchebnykh zavedeniy. Radioelektronika
IVUZ Radiofiz (IVYRA)		Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika
KE	(KVEKA)	Kvantovaya elektronika

KLDV	(KLDVA)	<i>Knizhnaya letopis'. Dopolnitel'nyy vypusk</i>
Kristal	(KRISA)	<i>Kristallografiya</i>
KSpF	(KRSFA)	<i>Kratkiye soobshcheniya po fizike</i>
MZhiG	(IMZGA)	<i>Akademiya nauk SSSR. Izvestiya. Mekhanika zhidkosti i gaza</i>
NM	(IVNMA)	<i>Akademiya nauk SSSR. Izvestiya. Neorganicheskiye materialy</i>
OiS	(OPSPA)	<i>Optika i spektroskopiya</i>
OMP	(OPMPA)	<i>Optiko-mekhanicheskaya promyshlennost'</i>
Otkr izobr	(OIPOV)	<i>Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki</i>
PSS	(PSSAB) (PSSBB)	<i>Physica Status Solidi (A). Applied Research Physica Status Solidi (B). Basic Research</i>
PTE	(PRTEA)	<i>Pribory i tekhnika eksperimenta</i>
RiE	(RAELA)	<i>Radiotekhnika i elektronika</i>
Roz elektr	(RZETA)	<i>Rozprawy elekrotechniczne</i>
RRP	(RRPQA)	<i>Revue roumaine de physique</i>
RZhF	(RZFZA)	<i>Referativnyy zhurnal. Fizika</i>
RZhGeofiz	(GZGFA)	<i>Referativnyy zhurnal. Geofizika</i>
RZhMekh	(RZMKA)	<i>Referativnyy zhurnal. Mekhanika</i>
RZhRadiot	(RZRAB)	<i>Referativnyy zhurnal. Radiotekhnika</i>
Sb1	Sbornik	<i>Fizika slozhnykh poluprovodnikovykh materialov. Zimnaya shkola po fizike poluprovodnikov. 9th. Materialy. Leningrad, 1979.</i>
Sb2		<i>Institut vysokikh temperatur AN SSSR. Vazhneyshiye rezul'taty nauchno-issledovatel'skikh rabot 1977 goda. Moskva, Nauka, 1978.</i>
Sb3		<i>Issledovaniye rabochego protsessa gazodinamicheskikh i khimicheskikh lazerov. Novosibirsk, Institut teoreticheskoy i prikladnoy mekhaniki SOAN, 1979.</i>
Sb4		<i>Primeneniye lazerov v atomnoy, molekulyarnoy i yadernoy fizike. Vsesoyuznaya shkola. 1st. Vil'nyus, 21-31 August 1978. Trudy. Moskva, Nauka, 1979.</i>

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- Sb7 Radiotekhnika i elektronika, no. 9, Minsk, 1979.
- Sb8 Dinamika kogerentnykh protsessov. Vladivostok, 1978.
- Sb9 Problemy meteorologii. Moskva, 1979.
- Sb10 Issledovaniya opticheskogo izlucheniya nochnogo neba. Yakuts, Yakutskiy filial SOAN, 1979.
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- Sb18 Fizicheskiye osnovy golografiyi. Vsesoyuznaya shkola po golografiyi. 11th. Materialy. Leningrad. Fiziko-tehnicheskiy institut, 1979.
- Sb19 Fizicheskiye osnovy golografiyi. Vsesoyuznaya shkola po golografiyi. 10th. Minsk, 1978. Materialy. Leningrad, 1978.
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- Sb21 Budushcheye nauki. Mezhdunarodnyy yezhegodnik, no. 12, Moskva, 1979.
- Sb22 Vsesoyuznoye soveshchaniye. 3rd. Eksperimental'nyye metody i apparatura dlya issledovaniya turbulentnosti. Tezisy dokladov. Novosibirsk, 1979.

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- Sb30 Pribory i metody spektroskopii. Vsesoyuznaya konferentsiya, Novosibirsk, 17-19 Oct 1979. Tezisy dokladov. Novosibirsk, Institut avtomatiki i elektrometrii SOAN, 1979.
- Sb31 Problemy atmosfernoy optiki. Leningradskiy universitet, 1979.
- Sb32 Elektricheskiye svoystva slozhnykh poluprovodnikov i kristallov. Dushanbe, 1978.
- Sb33 Voprosy atomnoy nauki i tekhniki. Fizika radiatsionnykh povrezhdeniy i radiatsionnogo materialovedeniya, no. 1/9, Khar'kov, 1979.
- Sb34 Vsesoyuznyy simpozium po impul'snym davleniyam, 1979. Tezisy dokladov. Moskva, 1979.
- Sb35 Ustroystva i sistemy avtomatizirovannoy obrabotki informatsii, no. 5, Penza, 1979.
- TKiT (TKTEA) Tekhnika kino i televedeniya
- Tr1 Trudy Moskovskiy energeticheskiy institut. Trudy, no. 376, 1978.
- Tr2 Fizicheskiy institut AN SSSR. Trudy, no. 118, 1980.
- Tr3 Moskovskiy energeticheskiy institut. Trudy, no. 403, 1979.
- Tr4 Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 135, 1979.
- Tr5 Moskovskiy energeticheskiy institut. Trudy, no. 422, 1979.
- Tr6 Moskovskoye vyssheye tekhnicheskoye uchilishche. Trudy, no. 309. Raschet i proyektirovaniye optiko-elektronnykh priborov, no. 12, 1979.

Tr7		Fizicheskiy institut AN SSSR. Trudy, no. 115, 1980.
Tr8		Dnepropetrovskiy sel'skokhozyaystvennyy institut. Trudy, no. 39, 1979.
Tr9		Moskovskiy energeticheskiy institut. Trudy, no. 433, 1979.
Tr10		Moskovskiy energeticheskiy institut. Trudy, no. 418, 1979.
Tr11		Moskovskiy energeticheskiy institut. Trudy, no. 426, 1979.
Tr12		Fizicheskiy institut AN SSSR, no. 117, 1980.
TVT	(TVTYA)	Teplofizika vysokikh temperatur
UFN	(UFNAA)	Uspekhi fizicheskikh nauk
UFZh	(UFIZA)	Ukrainskiy fizicheskiy zhurnal
VBU	(VBMFA)	Belorusskiy universitet. Vestnik. Seriya 1. Matematika, fizika, mekhanika
VMU	(VMUFA)	Moskovskiy universitet. Vestnik. Fizika, astronomiya
ZhETF	(ZEIFA)	Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhETF P	(ZFPRA)	Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhPMTF	(ZPMFA)	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki
ZhPS	(ZPSBA)	Zhurnal prikladnoy pektroskopii
ZhTF	(ZTEFA)	Zhurnal tekhnicheskoy fiziki
ZhTF P	(PZTFD)	Pis'ma v Zhurnal tekhnicheskoy fiziki
ZL	(ZVDLA)	Zavodskaya laboratoriya

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- NS. Non-Soviet
0. Affiliation not given
 1. Physics Institute imeni Lebedev, AN SSSR (Fizicheskiy institut imeni Lebedeva AN SSSR).
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 3. Institute of Physics, AN BSSR (Institut fiziki AN BSSR).
 4. Physicotechnical Institute im Ioffe, Leningrad (Fiziko-tehnicheskiy institut im Ioffe).
 5. Institute of Physics, AN UkrSSR (Institut fiziki AN UkrSSR).
 6. Institute of Semiconductors, AN UkrSSR (Institut poluprovodnikov AN UkrSSR).
 7. State Optical Institute im Vavilov, Leningrad (Gosudarstvenny opticheskiy institut im Vavilova).
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 16. Moscow Engineering Physics Institute (Moskovskiy inzhenerno-fizicheskiy institut).
 18. Institute of General and Inorganic Chemistry im Kurnakov, AN SSSR (Institut obshchey i neorganicheskoy khimii im Kurnakova AN SSSR).
 19. Moscow Power Engineering Institute (Moskovskiy energeticheskiy institut).
 20. All Union Scientific Research Institute of Physicotechnical and Electronic Measurements, Moscow (VNII fiziko-tehnicheskikh i elektronnykh izmereniy).
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 24. Moscow Higher Technical College im Bauman (Moskovskoye vyssheye tekhnicheskoye uchilishche im Baumana).
 29. Leningrad Polytechnic Institute (Leningradskiy politehnicheskiy institut).
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 108. Khar'kov Polytechnic Institute (Khar'kovskiy politehnicheskiy institut).
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 112. Leningrad Institute of Soviet Trade (Leningradskiy institut Sovetskoy torgovli).
 118. Moscow Physicotechnical Institute (Moskovskiy fiziko-tehnicheskiy institut).
 122. Scientific Research Institute of Physicochemistry im Karpov (NI fiziko-khimicheskiy institut im Karpova).
 126. Omsk Polytechnic Institute (Omskiy politehnicheskiy institut).
 133. Central Aerohydrodynamic Institute (Tsentral'nyy aerogidrodinamicheskiy institut).

134. Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya).
136. Uzhgorod State University (Uzhgorodskiy GU).
137. Voronezh State University (Voronezhskiy GU).
140. All Union Scientific Research Institute of Physicotechnical and Radiotechnical Measurements (VNII fiziko-tehnicheskikh i radiotekhnicheskikh izmereniy).
141. All Union Scientific Research Institute of Optophysical Measurements (VNII optiko-fizicheskikh izmereniy).
144. All Union Scientific Research Institute of Television and Radio Broadcasting (VNII televideniya i radioveshchaniya).
148. Institute of Terrestrial Magnetism, the Ionosphere and Radiowave Propagation, AN SSSR (Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR).
150. Dnepropetrovsk State University (Dnepropetrovskiy GU).
151. Kishinev State University (Kishinevskiy GU).
152. Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov).
159. Institute of Thermophysics, Siberian Branch, AN SSSR (Institut teplofiziki SOAN).
161. Moscow Institute of Radio Engineering, Electronics and Automation (Moskovskiy institut radiotekhniki, elektroniki i avtomatiki).
174. Scientific Research Institute of Organic Intermediates and Dyestuffs, Moscow (NII organicheskikh poluproduktov i krasiteley).
193. Institute of Theoretical and Applied Mechanics, Siberian Branch, AN SSSR (Institut teoreticheskoy i prikladnoy mekhaniki SOAN).
195. Northwest Correspondence Polytechnic Institute (Severo-Zapadnyy zaochnyy politekhnicheskiy institut).
197. Tomsk Polytechnic Institute (Tomskiy politekhnicheskiy institut).
207. Main Geophysical Observatory (Glavnaya geofizicheskaya observatoriya).
210. Institute of Physics, Siberian Branch, AN SSSR (Institut fiziki SOAN).
211. Kalinin Polytechnic Institute (Kalininskiy politekhnicheskiy institut).
214. Kazan' Pedagogical Institute (Kazanskiy pedagogicheskiy institut).
215. Physicotechnical Institute, AN TadzhSSR (Fiziko-tehnicheskiy institut AN TadzhSSR).
223. Central Institute for the Advanced Training of Physicians (Tsentral'nyy institut usovershenstvovaniya vrachey).
231. Scientific Research Institute of Motion Pictures and Photography (NI kinofotoinstitut)
252. Leningrad Institute of Nuclear Physics, AN SSSR (Leningradskiy institut yadernoy fiziki AN SSSR).
276. Institute of Physics of the Earth im Shmidt, AN SSSR (Institut fiziki Zemli im Shmidta AN SSSR).
282. Scientific Research Institute of Physics, Odessa (NII fiziki, Odessa).
295. Institute of Chemical Kinetics and Combustion, Siberian Branch, AN SSSR (Institut khimicheskoy kinetiki i goreniya SOAN).
297. Institute of Chemistry, AN SSSR, Gor'kiy (Institut khimii AN SSSR).
323. Leningrad Institute of Motion Picture Engineers (Leningradskiy institut kinoinzhenerov).
348. Volgograd State Pedagogical Institute (Volgogradskiy gos pedagogicheskiy institut).
362. Leningrad Pedagogical Institute (Leningradskiy pedagogicheskiy institut).
426. Institute of Applied Physics, AN SSSR, Gor'kiy (Institut prikladnoy fiziki AN SSSR).
439. Pure Metals Plant, Svetlovodsk (Zavod chistikh metallov).

450. Scientific Research Institute of Stable Isotopes (NII stabil'nykh izotopov).
466. Institute of High-Current Electronics, Siberian Branch, AN SSSR (Institut sil'notochnoy elektroniki SOAN).
490. Institute of Physics, AN GruzSSR (Institut fiziki AN GruzSSR).
507. Institute of Solid State and Semiconductor Physics, AN BSSR (Institut fiziki tverdogo tela i poluprovodnikov AN BSSR).
512. Institute of General and Inorganic Chemistry AN BSSR (Institut obshchey i neorganicheskoy khimii AN BSSR).
523. Irkutsk Institute of Organic Chemistry, Siberian Branch, AN SSSR (Irkutskiy institut organicheskoy khimii SOAN).
528. Institute of Radio Engineering and Electronics, Siberian Branch, AN SSSR (Institut radiotekhniki i elektroniki SOAN).
529. Vinnitsa Polytechnic Institute (Vinnitskiy politekhnicheskiy institut).
530. Institute of Chemistry AN TadzhSSR (Institut khimii AN TadzhSSR).
531. Atlantic Branch of the Institute of Oceanography, Kaliningrad (Atlanticheskoye otdeleniye Instituta okeanologii).
532. Mordovian State University, Saransk (Mordovskiy GU).
533. Dnepropetrovsk Agricultural Institute (Dnepropetrovskiy sel'sko-khozyaystvennyy institut).

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KOZIK V I	49 KUSCH S	22 LITVIN P F	40
KOZINA G S	5 KUSHIN V V	100 LITVINTSEV V I	49
KOZLOV D N	89 KUSHNIR V R	20 LOSACHEV A N	5
KOZLOV N A	8 KUTELIYA E R	93 LOBANYUK I V	68
KOZLOV O V	76 KUTOVOY V P	75 LOBKO V V	39
KOZLOV V S	45 KUTUKOV D A	68 LOGVINOV I N	34
KOZLOVSKIY K I	98 KUTUKOV V A	38 LOKHOV YU N	93
KOZYREV YU P	98 KUZ'MENKO B P	68 LOPASOV V P	43, 81, 86
KOZYUKOV A V	67 KUZ'MICHEV V M	92 LOPASOVA T A	44
KRASHAKOV S A	8 KUZ'MIN I V	49 LOPINA S V	83
KRASNIKOV YE D	26 KUZ'MIN R N	38 LOPYREV V A	87
KRASNOK I V	8 KUZ'MINA I P	5 LORINCZ E	14
KRASNOK K A	9 KUZ'MINOV YU S	35 LOSEV S A	106
KRASNOVA A V	67 KUZNETSOV A N	68 LOSHCHEMKOVA YE F	32
KRASOVSKIY A N	85 KUZNETSOV E I	99 LOTKOVA E I	11
KRASYUK I K	96 KUZNETSOV M I	69 LUCHIN V I	95
KRAVCHENKO A F	3, 85 KUZNETSOV S V	45 LUKASHEVICH P G	86
KRAVCHENKO V B	40 KUZNETSOV V A	5 LUKASHUK S B	52
KRAVETS L V	45 KUZNETSOV V M	15, 74 LUKIN I P	46
KRAVTSOV N V	2, 21, 67 KUZNETSOVA YE N	48 LUKINYKH V F	77
KRAYNIK N N	26	LUK'YANCHIKOV G S	21
KREYNDEL'YU YE	21 L	LUK'YANCHUK B S	90, 91
KRINDACH D P	37, 47	LUK'YANOV YU N	37
KRISTALLOV A R	60 LACHINOV A N	95 LUNEV V V	74
KRIVOV M A	3 LADEMAN YU	7 LUN'KIN S P	86
KROCHIK G M	10, 29 LAKOBA I S	16 LUPASCU A I	105
KROT V I	86 LARIN N V	98 L'VOV V S	73
KRUCHNOVA O A	3 LARIONTSEV YE G	21, 67 LYAPIDEVSKIY V K	100
KRUGLOV S V	2 LARKIN A I	62 LYAPTSEV A V	58
KRUGLYAK Z B	73 LAVROV A V	3, 15 LYNDIN N M	42
KRUMIN' A E	52 LAYKHTMAN B D	77 LYSANOVA G V	2
KRUPITSKIY E I	22 LAZAREV A I	103 LYUBAVSKAYA I K	54
KRUPNOVA L V	98 LAZAREV L P	69, 103 LYUBCHENKO A V	36
KRYAKHTUNOV V S	66 LAZAREV V L	103 LYUBCHIK B G	62
KRYLOV P S	9 LAZARUK A M	52 LYUK P A	4
KRYLOV V N	37 LEBEDEV A K	39 LYUSHNYA I B	11
KRYUKOV P G	40 LESEDEV A V	27 LYUTYY A I	48

M	MIKHAYLOV YE L	9	NAYDA O N	22
MAGHIAR G H	MIKHEYCHEV V S	103	NAZAROV B I	37
MAJOROSI A	MIKILEV A I	40	NEDEOGLO D D	84
MAK A A	MILER M	103	NEFEDOV V I	87
MAKARENKO V V	MIL'SHTEYN A I	37	NEPEDOV YE I	42
MAKAROV A I	MIL'VIDSKIY M G	4, 84	NEMCHIMOV I V	91
MAKAROV V A	MILYAVSKIY YU S	40	MEMKOVICH N A	8
MAKAROV YE F	MILYAYEV V A	86	MENTINOV V B	55
MAKHANOV A G	MILYUKOV YE M	86	NEOKLADNOVA L N	86
MAKIYENKO A I	MINCHEV G	49	NERUSHEV A P	47
MAKOGON M M	MINCHEV G M	50	NESMELOV YE A	92
MAKSIMOV A I	MINERVINA O I	90	NESRULLAYEV A N	70
MAKSIMOV G A	MINEYEV V P	93	NESTERENKO T M	20
MAKUSHKIN YU S	MINOR U	22	NESTERIKHIN YU YE	73
MALAKHOV YU I	MIOTKOWSKI I	89	NETREBKO A V	69
MALAKHOVSKIY V R	MIRGORODSKIY A P	86	NEVOLIN V N	57
MALASHONOK V A	MIRONENKO S I	52	NEZHEVENKO YE S	49
MALEVICH I A	MIRONOV A B	30	NICULESCU N	16
MALINOVSKIY V K	MIRONOV S A	25	NIKANOROVA YE A	11
MAL'KOV V M	MIRONOV V L	46	NIKITENKO A G	105
MALKOVA V S	MIRONOV YU M	6	NIKITIN M M	37
MALOV A N	MISHCHENKO YU V	69	NIKITIN N V	24
MALTABAR A I	MIS'KEVICH A I	18	NIKOLASHINA L I	90
MALYKH V B	MITEVA M G	55	NIKOLAYEV A G	103
MALYSHEV B M	MITIN I V	21	NIKOLAYEV V P	47
MALYSHEV G A	MITSEN K V	77	NIKULIN YE I	35
MALYSHEVSKIY N G	MITYUSHEVA I V	79	NOVIKAS V I	66
MALYUTIN A A	MIZEROV M N	80	NOVIKOV M A	32
MAMEDOV A A	MKRTYCHIAN E M	93	NOVIKOV V P	32
MAMEDOV A M	MOISEYEV S S	91	NOVOKRESHENOV V K	1
MANAKOV N L	MOKEYEVA G A	86	NOVOSELOVA A V	95
MANDEL V YE	MOLCHANOV A G	17		
MANDEL'SHTAM S L	MOLOCHEV V I	6	O	
MANDZHIKOV V F	MORDUKHAYEV A R	80		
MANENKOV A A	MORGUN YU P	18	OBOZNENKO YU L	78
MANESHIN N K	MORGUNOVA YE V	69	OBUKHOV A S	67
MAN'KO M A	MORICHEV I YE	93	OB"YEDKOV V P	51
MANYKIN E A	MOROZOV B M	34	OCHIN YE P	49
MANZON B M	MOROZOV B V	85	OCHKIN V N	89
MARAKHONOV V I	MOROZOV V N	50, 54	OGURTSOVA L A	3
MARENnikov S I	MORTIKOVA N Z	46	OKHOTNIKOV O G	4
MARGOLIN L YA	MORY S	60	OKLADNIKOV N V	29, 52
MARKOVA TS	MOSSAKOVSKIY V I	69	OKONENKO S A	27
MAROPCHUK I YE	MOTULEVICH G P	77	OLE FIR G I	34
MARUSHCHAK V A	MOUSA M I	78	OLEYNIKOV V P	92
MASALOV A V	MOZDOR YE V	63	OM A E	10
MASHENDZHINOV V I	MURATOV V I	91	OMEL'CHENKO D I	75
MASLENNIKOV V G	MURAVEYSKIY A I	24	ONOKHOV A P	60
MASLOV A I	MUSA G	16	OPARIN A N	49
MATSAS YE P	MUSTEL' YE R	25	OPRE V M	22
MATSEYKO V I	MYAGCHENKO YU A	34	OREKHOV M V	92
MATSONASHVILI R B	MYAKININ V A	47	ORLOV G N	75
MATVEYEV O A	MYL'NIKOV V S	93	ORLOV M YU	13
MAYMISTOV A I	80		ORLOVA N D	87
MAYOROV S A	27		OSELEDCHIK YU S	29
MAYER G V	N		OSHEROVICH A L	87, 105
MAZHUKIN V I	49		3 OSIKO V V	2, 35
MAZHURA S O	NABOYKIN YU V	57	57 OSIPOV A I	18
MAZURIK N YE	NAGAYEVA M L	51	51 OSIP'YAN YU A	82
MAZURKIEWICZ S B	NAGLI L YE	56	56 OSTROVSKAYA L M	24
MEL'NIKOV L A	NALIMOV I P	61	61 OSTROVSKAYA L YA	11
MEL'NIKOV L D	NALIVAYKO V I	81	81 OSTROVSKAYA L YE	89
MEL'NIKOVA N V	NANI R KH	40	40 OTORBAYEV D K	89
METEL'SKIY V M	NANUSH'YAN S R	10, 12, 13	OTTO A	45
MEZHEVOV V S	NAPARTOVICH A P	78	OVSEPYAN R K	50
MIKHAYLOV A V	NASONOV N M	46	OVSYANNIKOV R N	66
MIKHAYLOV L K	NASTOYASHCHIY A P			
MIKHAYLOV S I	NATAROVSKIY S N	61		
MIKHAYLOV V P	NAUMENKO V V	91	P	
	NAUMOV P B	64		
	NAUMOVA N A	26	PAK G T	

PAKSHVER A B	95	POGORELKSIY I V	16	RINKEVICHYUS B S	71,87
PAL'CHUN T V	42	POGUTSE O P	99	RODIN V N	24
PALM K	82	POKROVSKIY L D	66	ROM-KRICHESKAYA I A	83
PAL'TSEV L A	15	POLIVANOV YU N	30	ROMANENKO P F	54
PANASENKO S V	92	POL'KIM V V	45	ROMANENKO V V	91
PANCHENKO V YA	16	POLOVNIKOV V I	70	ROMANOV YU P	49
PAPERNYY S B	37	POLUEKTOV I A	38	ROMANYUK N A	79
PAPULOVSKIY V F	6	POLUKHIN P I	69	ROSHCHIN A I	92
PAPYRIN A N	64	POLYAKOV M YE	5	ROZANOV N N	32,34,71
PARAIL V V	99	POLYAMINOV A V	94	ROZANOV V B	97,98
PARFENOV A V	26	POLYANSKIY V K	55,56	ROZHKOVA V	80
PARKHOMENKO A I	51	PONOHAREV N N	48	ROZOV B S	72
PARYGIN V N	40	POPESCU G H	9	ROZOVSKIY M O	41
PASHCHENKO V Z	11,28	POPESCU I M	105	ROZSA K	14
PASHININ P P	40	POPLAVSKIY S V	64	RUBAN N A	15
PASHKEVICH M F	96	POPOV A X	27,28,77,83	RUSAHOV A S	8,52
PASOLD G	62	POPOV A M	91	RUBEKO L M	8
PAVLENKO A A	23	POPOV D	20	RUBIN A B	40
PAVLOV N I	46	POPOV YU A	70	RUBIN L B	40
PAVLOV P V	58	POPOV YU M	26,38,54,95	RUDNEVSKIY V S	5,6
PAVLOVSKIY A I	3	PORTNOY YE L	5	RUDNITSKIY A S	21
PAVLYUK A A	90	POTAPOV O A	50,70	RUDZIKAS Z B	87
PECZELI I	1	POTAPOV V K	58	RUKAVISHNIKOV A A	65
PEKA G P	14	POTATURKIN O I	50	RUKHIN V B	11
PEKHLIVANOV KH	88	POTEMKIN A X	28	RUKMAN G I	60
PENCHEVA T G	49,50	POTYLITSYN A P	74	RUPASOV A A	97,100
PENIN A N	55	POVEDAYLO V A	8	RVACHEV V P	24
PERECHINSKIY S I	61,79	POZDNYAK N I	93	RYABCHENKO S M	85
PEREL'MAN N F	80	PREDA A M	105	RYABOKON' V N	25
PEREVEDENTSEVA G V	34,58	PREDKO K G	55	RYABOV YE A	57
PERINA J	70	PREDTECHENSKIY A A	73	RYABOVA L A	79
PERINOVA V	29	PRESNYAKOV YU P	56	RYABTSEV G I	4
PEROV V A	29	PRILEZHAYEV D S	1	RYATSEV A YA	89
PETNIKOVA V M	70	PRINTS V YA	3	RYAZANOV A V	90
PETROSYAN K B	34	PRIVALOV V YE	9	RYBAKOV A V	25
PETROV A K	82	PROFATILOV A I	22	RYVKIN B S	5
PETROV D V	57	PROKHOROV A M	36,96	RZHEPKA A V	87
PETROV M P	50,53,54,55	PROKOPENKO N V	90	RZHEVSKIY S P	25
PETROV N S	33	PROMYSLOV YE V	72		
PETROV V D	34	PTITSYN G A	58		
PETROV V V	55	PTITSYN V N	62		
PETROVA N A	69	PUGACHEV G S	75	SAARI P M	7
PETROVSKIY G T	2	PUKHLIY ZH A	36	SADOVSKIY V N	20
PETRUN'KIN V YU	40,42	PUSHKIN S B	60	SAFRONOVA A S	99
PEVGOV V G	76	PUTNA V P	95	SAFRONOVA U I	99
PICHIKYAN N A	11,12	PYATNITSKIY L N	71	SAGITOV A I	95
PIKULIK L G	70	PYL'NOV YU V	6	SAKAROV V N	75
PIKUZ S A	8		58	SALAMON T	14
PILIPOVICH V A	97	R	75	SALETSKIY A M	7
PILZ W	55		85	SAL'MIKOV YU V	70
PIMENOV YU D	83	RAABE K	96	SAMARSKIY A A	97
PINDERA J T	58	RABINOVICH E M	58,104	SAMATSEV V V	80
PISKARSKAS A	70	RABINOVICH M S	51	SAMOKHIN A A	95
PISKARSKAS A S	36	RABINOVICH V A	51	SAMSONOV YU N	57
PISKOVA G K	87	RACHKOVSKIY R R	77	SAMUYLOVA N K	23
PIS'MENNYY V D	57	RAKHIMOV D A	56	SANINA V A	77,86
PITTELKOW R	13	RAKHAL'SKIY M P	4	SANNIKOV S P	11
PIVOVAROV I YU	65	RAKITINA L A	26	SAPOZHNIKOV S B	68
PIVTSOV V S	26	RAMAZANOVA G S	71	SARKISOV YU N	42
PLASTTININ YU A	1	RANNEV N V	68	SARZHEVSKIY A M	31
PLATONOVA L A	74	RAPOORT L P	57	SATTAROV D K	64
PLIMAK L I	87	RASSOKHA A A	71	SATTIKULOV M	32
PLYATSKO G V	83	RAUTIAN S G	40	SAVARENSKIY V YE	47
PLYAVIN' I K	78	RAZHENKOV YE T	100	SAVEL'YEVA V N	62
PODGORNYY A P	51	RAZUMOVA T K	58,60	SAVINOV S YU	89
PODKOLZINA I G	3	RESHETIN YE P	39	SAVINOV V P	93
PODOSRYANSKIY A V	2	RESHETNIKOV V A	63	SAVITSKIY A V	85
PODSEVALOV V V	66	REZNICK YE M	2	SAVUSHKIN A F	64
PODUYEV M I	74	RIBAROV V	20	SAVVINA R M	61
	11	RICHTER P	14	SAYAKHOV R SH	30

SCNEIBNER H	16	SHLYAGIN M G	50	BOROKOVIKOV V I	25
SCNRAMM W	18, 19	SHMAONOV T A	30	BOROKOVIKOV V N	25
SCHROEFEL J	26	SHTERNBERG A A	5	BOSHCHIN N P	2, 3
SCHROETER O	82	SHTEYNMAN E A	82	SOSHNIKOV V G	63
SCNUBERT M	39	SHTOKMAN N I	40, 87	SOSKIN M S	35
SEBASTIAN M	94	SHTYRKOV YE I	56	SOTIROVA T	20
SEBASTIYAN N (SEE SEBASTIAN N)		SHUMILKIN V G	66	SOVTUS V G	61
SEDOV B M	1	SHUMYATSKIY P S	59	SPASSKOV M V	72
SEDOV V YE	77	SHUTREYEV V YA	72	SPEKTOR B I	50
SEDUNOV YU S	47	SHUVALOV L A	35, 76	STABINIS A	36
SEMENCHENKO I V	74	SIDOROV V A	2	STASNIKOV N V	72
SEMEONOV A S	6	SIEBER F	94	STAFFEYEV V I	5
SEMEONOV L P	47	SILIN V P	98, 99	STARIK A M	64
SEMEONOV V V	76	SIMANKOVA L	26	STAROBOGATOV I O	60
SEMEONOV V YE	71	SIMANOVSKAYA YE I	40	STARODUBTSEV A I	13
SEMEKOVA T S	2	SIMASHKEVICH A V	84	STARODURTSEV G P	61
SEMEYKIN N P	62	SINCHENKO V G	7	STAROS P G	41
SEMIZOROV A F	78	SINITSYN V B	55	STAROSTIN A I	13
SERBINOV I A	79	SIZOV N I	27	STAROSTIN A N	12
SERDYUCHENKO YU N	30	SIZYKN A G	44	STARTSEV S A	98
SEREБRYAKOV V A	32	SKNIMNIKOV O M	25	STARUNOV V S	30
SEREGIN S L	8	SKLIZKOV G V	10	STASEL'KO D I	53
SEREGINA V M	92	SKOBELEV I YU	97, 100	STESA A M	28
SERGEYEV A B	6	SKRIPKIN A M	97, 100	STEFANOV S R	69
SERGEYEV A M	22	SKRIPKIN V A	47	STEPANOVICH S YU	27, 68
SERGEYEV V V	28	SKRIPKO G A	4	STEL'MAKH G P	88
SERIKOV R I	64	SKROTSKIY G V	86	STELMACU M E	96
SEROBABIN A T	43	SKUBLOVA N V	56	STEPANOV A I	30
SEROV O B	22, 54	SKVORCNEVSKIY A K	74	STEPANOV B M	48, 51, 56, 60
SERZHANTOV A M	65	SKVORTSOV M N	72	STEPANOV S I	53, 54, 55
SEVAST'YANENKO V G	43	SLABKO V V	76	STERIAN P E	105
SHAGLAYEVA N S	87	SLEPKOV I A	77	STERLIGOV V A	3
SHALDIN YU V	5	SLIVKA V YU	70	STOYLOV YU YU	7
SHALYAYEV M F	29	SLOBODYANYUK A V	80	STRIGALEV V YE	41
SHAPAREV N YA	18, 24	SMAKOTIN M M	34	STRIKHA V I	82
SNAPLYGINA T A	25	SMIL'GYAVICHYUS V	90	STRINADKO L V	55, 56
SHAPOVALOV E T	92	SMIRNOV M G	36	STRINADKO M T	55, 56
SHARIPOV G L	36	SMIRNOV V A	30	STRIZHEVSKIY V L	28
SHARLANDZHEV P S	55	SMIRNOV V G	32	STROKACH YU P	59
SHATALIN S V	12	SMIRNOV V I	13	STROKOVSKIY G A	21
SNAYDROV V O	83	SMIRNOV V L	66, 71, 72	STRUK I I	14
SNAYMARDANOV A M	47	SMIRNOV V V	25, 41, 52	SUBOTINOV N V	9, 15
SNCHANIN P M	21	SMOLENSKIY G A	46, 89	SUCNKOV A I	98
SNCHERBAKOV I A	2, 36	SMOLOVICN A M	26	SUEPTITZ P	94
SNCHUKIN I V	63	SNEGURSKIY A V	54	SUKNANOV A N	13
SNCHUR L M	96	SNEZNKO YU A	16	SUKNANOV L V	90
SHCNURENKOVA A A	72	SNTIKO O V	49	SUKHORUKOV A P	47
SNEIN V V	94	SOSSEL'MAN I I	3, 63	SUKHOVOL'SKIY V M	45
SHELAYEV A M	67	SOSOLEV A G	14, 106	SULTANOV M A	92, 99
SHELEMIN YE S	60, 70	SOBOLEV N I	95	SURALISNVILI G I	35
SHEFEL' L G	88	SOBOLEV N N	11	SURKIN R I	46, 88
SHEPELEVICH V V	23	SOBOLEV V S	89	SUSHINSKIY M M	31
SNERSHAKOVA I M	84	SOSOLEVA YE M	73	SUSNEKOVICH K D	84
SNERSTOSITOV V YE	28	SOKOL'NIKOV A S	95	SUSLOV A I	11
SHEVANDIN V S	36	SOKOLOV A A	74	SUSOV A M	2
SHEVCHENKO V A	34	SOKOLOV A L	52	SUTORSNIN V N	71, 72
SHEVCHENKO YE S	62	SOKOLOV N S	72	UYAZOV N V	39
SHEVCNUK P P	82	SOKOLOVA V A	79	UYETINA N V	64
SHEVELEV V I	66	SOKOLOVSKAYA A I	81	SVAGR V	27
SNEYKMAN M K	36	SOKOLOVSKIY R I	29, 52	SVERDLOV B N	4
SNIKANOV A S	97, 100	SOLODOV A P	37	SVERDLOV L M	46, 88
SHILIN A V	24	SOLOKHA A F	72	SVET V D	33
SHILOV S M	8	SOLOPOV N D	6	SVIDZINSKIY K K	25
SNIPILOV K F	30	SOLOVEY V N	68	SYRKUNOV P N	47, 96
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SHKERDIN G N	32	SOROKIN V N	10	SZIGETI J	63
SHKOSA S V	16	SOROKINA N K	14	SZLACHETKA P	29
			95		

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TABAROV T S	TSYTLIM N N	68	VENEVSEV YU N	68	
TAGIROV R B	TSUKANOV V G	95	VERBIN S YU	94	
TAGIYEV M M	TSVETKOV V P	81	VERETENNIKOV A I	64	
TAIROV YU M	TSVIRKO M P	88	VERKHOTUROV A D	92	
TALANOV V I	TSVIRKO V A	73	VEROLAYNEN YA P	87	
TALE A K	TSVYK R SH	47	VERTYACHIKH S M	24	
TALENSKIY O N	TSYBIN A S	98	VEYKO V P	96	
TAMM T B	TSYPIN M I	24	VIBLYY I F	79	
TAMOYKIN V V	TUCHIN V V	12, 60, 96	VIGDOROVICH YE N	25	
TANANAYEV I V	TUDORACME ST ST	105	VINOGRADOV A V	97, 100	
TANTSYURA L YA	TUGBAYEV V A	18, 59	VINOGRADOV YE G	100	
TARASENKO V F	TUGUSHEV V V	6	VINOGRADOVA A A	37	
TATARENKO V M	TULIN V A	78	VIOLIN E YE	81	
TATARINOV B A	TUREVSKAYA YE P	95	VISSHNYAKOV G N	48	
TELBIZOV P K	TURKIN A A	73	VITSINSKIY S A	22	
TELEGIN G V	TUROVA N YA	95	VLAZENKO M F	61, 79	
TELEZHKO V M	TUZOVA S I	46	VLAZIMIRTSEV YU V	79	
TEPLYAKOV A P	TVERDOKHLEBOV V I	68	VLASOV A N	5, 6	
TERENT'YEV YE I	TYAGAY V A	3	VLASOV A V	41	
TERESHCHENKO N L	TYRSA V YE	44, 45	VLASOV D V	31	
TERLETSKIY O V	TYRYSHKIN I S	86	VLASOV G I	51	
TERNOV I M	TYURIN YE L	99	VLASOV I A	64	
TERNOVOY V YA	TYUSHKEVICH B N	20	VLASOV N G	56	
TETEL'BAUM D I	37		VLOKH O G	79	
THORWIRTH G	96		VODOP'YANOV L K	81	
TIKHOIMIROV I A	U		VOKHMIN P A	14, 17, 71	
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TIKHONOV YE A	UDOYEV YU P	41	VOL'BERG N SH	46	
TIMCHENKO A I	UGLOV A A	92, 96, 99	VOLKOVITSKIY O A	47	
TIMOFEEV A L	ULENIKOV O N	43	VOLOD'KO L V	89	
TIMOFEEV V S	UMAROV B S	88	VOLOSEVICH P P	97	
TIMOFEEV V P	UMREYKO D S	85, 86	VOLGOVOD V P	72	
TIMOFEEV YU P	UNANYAN O A	42	VOROB'YEV A YA	92	
TIMOSHECHKIN M I	USTICHENKO S N	89	VOROB'YEV N S	30	
TIMOSHEVSKIY A A	27	61	VOROB'YEV O A	70	
TISHCHENKO A V	USTINOV B P	103	VOROB'YEV S A	7, 74	
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TISHKIN V F	UTAROVA T M	27	VOROMINA V P	90	
TITOVA N N	UTKIN YE N	88	VORON'KO YU K	35	
TIUNOV YE A	UVAROV A I	73	VORONKOV M G	89	
TKACHENKO L P	UVAROVA T V	69	VORONKOVA V I	27	
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TOLKACHEV A V	VALAKH M YA	30	VORYKHALOV I V	27	
TOLKACHEV V A	VALITOV R A	61	VOVCHENKO V I	96	
TOLMACHEV V I	VALITOV R R	61	VOYTIK M G	17	
TOLPAREV R G	VANIM N G	56	VOYTovich A P	21	
TOMBAK M A	VARAKIM V N	16	VYAZOVSKIY M V	33	
TOMILIN M G	VARTANYAN E S	50	VYSLOUKE V A	32	
TOMIN V I	VASILENKO T A	76	VYSOCHANSKIY YU M	80	
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TRANKOVSKIY S D	VASILENKO YU G	79	W		
TRAVADZHYAN M G	59		51		
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TROFIMOV T N	VASIL'YEV G K	90	WILHELMI B	39	
TROKHAN A M	VASIL'YEV L A	79	WOLINSKI W	12	
TRON'KO V D	VASIL'Yeva O I	61	WRONA R	26	
TROPCHENKO A YU	69		89		
TSAMEV V I	VASIM B L	106	Y		
TSAPENKO A M	56		79		
TSAREV A V	VAYNSHTEYM B I	38	YAGHUROV V KH	1	
TSENDROVSKIY V A	44		73	2	
TSERTSVADZE A A	VAYTKUS YU K	79	YAGHUROVA G P	33	
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	33		90	YAKOVLEV I A	79
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	VELIKHOV YE P				
	66				
	VELIKIKH V S				

YAKOVLEV V I	90	ZAVILOPULO A N	16
YAKOVLEV YE B	96	ZAYAKIN V V	68
YAKOVLEVA I I	65	ZAYTSEV N K	24
YAKOVLEVA T V	31	ZDANOWICZ W	89
YAKUBOV I T	97	ZEKTSER G O	92
YAKUNIN V G	9	ZEL'DOVICH B YA	31, 33
YAKUSHEV V G	59	ZEMSKOV YE M	31
YANIK A A	15	ZEYNALIY A KH	80
YANOVSKAYA M I	95	ZHAK A M	62
YANUSHKEVICH V A	94	ZHARIKOV YE V	35
YANUTSH D A	74	ZHARKIKH YU S	74
YARMOLITSKIY V F	55	ZHARKOV A P	96
YAROSHETSKIY I D	80	ZHAROV V P	83
YASHIN V YE	32	ZHAVORONOK I V	75
YASHUMOV I V	4, 6	ZHDANOK S A	12
YASINSKIY V M	18	ZHERNOKLETOV M V	90
YASKEVICH G F	46	ZHILKIN V A	75
YASTREBKOV A B	13	ZHITS I G	41
YATSENKO YU P	21	ZHIYEMYALIS R F	95
YEFIMOV V F	30, 61	ZHUK D V	89
YEFIMOVA Z G	74	ZHUKOV A F	47
YEFIMOVSKIY S V	13	ZHUKOV V A	56
YEFREMOV A A	65	ZHUKOV YE A	6
YEFREMOV YU P	9	ZHUKOVETS ZH G	65
YEGIAZAROVA S	57	ZHUKOVSKIY V CH	76
YEGOROV A L	24	ZHURAVEL' F A	73
YEGOROVA YE D	46	ZHURAVLEVA N V	64
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YELIN O P	38	ZIETEK J	64
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YELYUKHIN V A	5	ZILING K K	33
YEREMENKO A S	30	ZIMIN L G	23
YERKO A I	56	ZIN'KOVSKIY YU F	74
YERMAKOV B A	5	ZINOV'YEV N N	80
YERMAKOVA T B	55	ZIRWER D	65
YEROKHIN A A	97, 100	ZIYENKO S I	22
YERSHOV A S	9	ZLATIN N A	75
YERSHOV G M	80	ZOLOTAREV A I	51
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Z		ZUYEV V S	7
ZABAYEV V N	74	ZUYEV V YE	43
ZAKHARCHENKO A I	90	ZUYEVA G YA	89
ZAKHARENKO YU A	97	ZVEREV S A	100
ZAKHAROV B M	80	ZYUPTITS P	
ZAKHAROV M I	23	(SEE SUKHTITZ P)	
ZAKHAROV S D	38		
ZAKHAROV S I	93		
ZAKHAROV V P	49		
ZAKREVSKIY N V	74		
ZALESSKAYA G A	89		
ZALESSKIY V YU	19		
ZALOGIN G N	74		
ZALYUBOVSKIY I I	91		
ZAPOROZHCHENKO V A	52		
ZARZHITSKAYA M N	2		
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ZAVGORODNEVA S I	28		

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